

ELEMENTS OF KINEMATICS.

Dynamics and Kinematics are the two Sciences which treat of Movement and Motion, Dynamics treats of the forces or *causes* that produce movements ; and Kinematics treats of the *effects* or resultants of single and of double compound Motion.

A body has but one Motion at any one time ; but that Motion may be the result or effect of a simple or single movement, or of many combined movements. Thus there is simple motion the consequence of a simple movement ; double Motion, the effect of two movements ; treble Motion the resultant of three movements, and so on ; and multiple Motion the effect of many movements.